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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M25)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	34.36	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	3 set /16-30 cum	29.97	6	6

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-05-08-12** **Date: 18-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-02-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-05-08-12** **Date: 18-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.18	_

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-08-12** **Date: 18-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-02-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.22	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-08-12** **Date: 16-03-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	16-02-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-05-08-12** **Date: 17-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	–

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#6-02

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-05-08-12** **Date: 17-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-05-08-12** **Date: 17-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	12	12	1.2	98.8	90-100	90-100	90-100	95-100
3	2.36 mm	155	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	163	330	33.0	67.0	30-70	55-90	75-100	90-100
5	600 micron	224	554	55.4	44.6	15-34	35-59	60-79	80-100
6	300 micron	272	826	82.6	17.4	5-20	8-30	12-40	15-50
7	150 micron	144	970	97.0	3.0	0-10	0-10	0-10	0-15
8	Pan	30	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-05-08-12** **Date: 17-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	16-02-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	548	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	569	675	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	572	691	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-05-08-12**	**Date: 28-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division	
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	24-02-23	
Sample Type /Size	:	Precast Cover Slab - 230mm Thick	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	24/02/2023	
Grade of Slab	:	M25	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	100.48	1.116	4719	128.2	27.2	25.3	31.6
2	Cover Slab-2	77.47	100.52	1.122	4713	127.4	27.0	25.1	31.4
3	Cover Slab-3	77.32	100.51	1.118	4695	126.0	26.8	25.0	31.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/03/2023

Lab ID	:	CP-2023-05-08-12
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M25	18/02/2023	18/03/2023	151.08 X 150.10 X 149.97	22677	8.430	624.9	27.6	27.6
2	Drain Bottom Raft Concrete	M25	18/02/2023	18/03/2023	149.49 X 149.29 X 150.60	22318	8.210	599.1	26.8	
3	Drain Bottom Raft Concrete	M25	18/02/2023	18/03/2023	149.32 X 151.14 X 151.35	22568	8.209	641.7	28.4	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/02/2023

Lab ID	:	CP-2023-05-08-12
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M25	18/02/2023	25/02/2023	151.65 X 149.11 X 151.70	22613	8.867	533.6	23.6	22.7
2	Drain Bottom Raft Concrete	M25	18/02/2023	25/02/2023	150.04 X 150.20 X 150.96	22535	8.521	495.8	22.0	
3	Drain Bottom Raft Concrete	M25	18/02/2023	25/02/2023	150.34 X 150.55 X 149.67	22634	8.819	511.7	22.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro BANGALORE Sig..... Date.....

FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-08-12** **Date: 03/04/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division

Agency : Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	06/03/2023	03/04/2023	150.73 X 150.36 X 150.20	22664	9.044	761.1	33.6	33.3
2	Cement Concrete Pavement	M30	06/03/2023	03/04/2023	150.05 X 149.80 X 149.55	22477	8.701	732.5	32.6	
3	Cement Concrete Pavement	M30	06/03/2023	03/04/2023	149.34 X 149.56 X 150.25	22335	8.588	755.4	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-05-08-12	**Date: 03/04/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division	
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-03-23	
Customer ID	:	Cement Concrete Pavement	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M30 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	03/04/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	06/03/2023	03/04/2023	149.64 X 149.60 X 149.59	22385	8.871	748.5	33.4	33.2
2	Cement Concrete Pavement	M30	06/03/2023	03/04/2023	149.75 X 149.78 X 149.69	22428	8.359	733.8	32.7	
3	Cement Concrete Pavement	M30	06/03/2023	03/04/2023	150.83 X 151.55 X 151.30	22859	8.601	767.8	33.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-05-08-12** **Date: 28/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division
Agency	:	Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	21/02/2023	28/02/2023	149.24 X 151.81 X 150.64	22656	8.206	529.8	23.4	22.6
2	Drain Side Wall Concrete	M25	21/02/2023	28/02/2023	150.90 X 149.78 X 151.60	22602	8.286	499.4	22.1	
3	Drain Side Wall Concrete	M25	21/02/2023	28/02/2023	151.28 X 150.29 X 149.95	22736	8.639	504.1	22.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-08-12** **Date: 21/03/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division

Agency : Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-02-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M25	21/02/2023	21/03/2023	150.09 X 151.40 X 151.92	22724	8.810	620.6	27.3	27.4
2	Drain Side Wall Concrete	M25	21/02/2023	21/03/2023	149.24 X 149.00 X 150.04	22237	8.221	590.6	26.6	
3	Drain Side Wall Concrete	M25	21/02/2023	21/03/2023	151.60 X 149.76 X 151.37	22703	8.880	640.3	28.2	

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Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

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Project Name : Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division

Agency : Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-02-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M25	21/02/2023	21/03/2023	151.07 X 151.75 X 150.30	22925	8.760	632.9	27.6	27.5
2	Drain Side Wall Concrete	M25	21/02/2023	21/03/2023	150.16 X 151.26 X 150.49	22714	8.737	609.5	26.8	
3	Drain Side Wall Concrete	M25	21/02/2023	21/03/2023	149.95 X 151.44 X 151.14	22708	8.935	636.5	28.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-08-12 **Date: 28/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Road and Drain at kotebheedhi and surrounding areas in Chowdeshwari ward No-02 of Yelahanka Sub division

Agency : Sri. A Mohith Kumar, Ground Floor, 18, 20th Cross, Behind Coffee Board Park, Bhuvaneshwarinagar, Hebbal, Kempapura, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/109/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-02-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	21/02/2023	28/02/2023	151.00 X 150.22 X 149.33	22684	8.773	524.1	23.1	22.8
2	Drain Side Wall Concrete	M25	21/02/2023	28/02/2023	149.87 X 149.70 X 149.14	22436	8.871	507.2	22.6	
3	Drain Side Wall Concrete	M25	21/02/2023	28/02/2023	149.07 X 151.72 X 150.31	22617	8.209	513.0	22.7	

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